

AMENDMENTS TO THE CLAIMS:

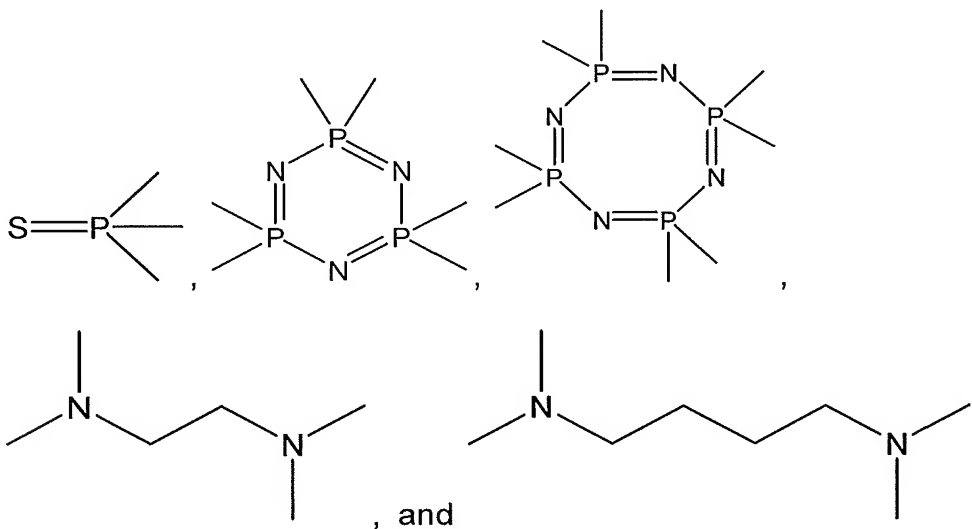
This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

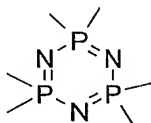
1-56. Canceled

57. (Currently Amended) A dendritic polymer according to claim 54 85, wherein A2 represents -Me-.

58. (Currently Amended) A dendritic polymer according to claim 54 85, wherein the central core § is selected from the group consisting of:



59. (Currently Amended) A dendritic polymer according to claim 54 85, wherein the central core § has the formula:



60. (Currently Amended) A dendritic polymer according to claim 54 85, wherein m represents an integer from 1 to 8.

61. (Currently Amended) A dendritic polymer according to claim 54 85, wherein m is selected from 3, 4 and 6.

62. (Currently Amended) A dendritic polymer according to claim 54 85, wherein n is from 0 to 3.

63. (Cancelled)

64. (Cancelled)

65. (Currently Amended) A dendritic polymer according to claim 54 85, wherein in formula $[[C1]](I-1i)$, A represents an oxygen atom.

66. (Currently Amended) A dendritic polymer according to claim 54 85, wherein B represents an optionally substituted phenyl radical.

67. (Currently Amended) A dendritic polymers according to claim 54 85, wherein D represents a hydrogen atom.

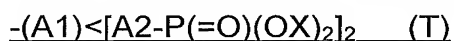
68. (Currently Amended) A dendritic polymer according to claim 54 85, wherein E represents an -Alkyl radical.

69. (Currently Amended) A dendritic polymer according to claim 54 85, wherein G represents a sulfur atom.

70. (Currently Amended) A dendritic polymer according to claim ~~[[54]]~~ 108 of generation n comprising:

- a central core § of valence m;
- generation chains branching around the core;
- an intermediate chain at the end of each generation chain that is present, or at the end of each bond around the core, where appropriate; and
- a terminal group at the end of each intermediate chain,

wherein said terminal group is represented by the formula:



wherein

-A1< represents the radical -CR< or -Heteroatom< ;

the radicals A2, which are identical or different, each independently of the other represents a single bond or a linear or branched hydrocarbon chain having from 1 to 6 chain members, each of said chain members optionally being selected from a heteroatom, each chain member being optionally substituted by one or more substituents selected from -Alkyl, -Hal, -NO₂, -NRR', -CN, -CF₃, -OH, -OAlkyl, -Aryl, and -Aralkyl;

R and R', which are identical or different, each independently of the other represents a hydrogen atom or an -Alkyl, -Aryl, or -Aralkyl radical;

X represents an -Alkyl or -Aryl radical, -H or /M⁺, where M is a cation,

m represents an integer greater than or equal to 1

n represents an integer from 0 to 12; and

< represents two bonds situated on A1,

wherein the intermediate chains are represented by formula:



wherein

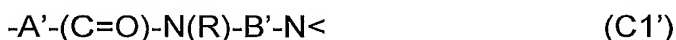
J represents an oxygen atom, a sulfur atom or a radical -NR-;

K represents an -Aryl-, -C(=O)-, -Heteroaryl-, or -Alkyl- radical, each of which is optionally substituted by a Halogen atom or a -NO₂-, -NRR', -CN-, -CF₃-, -OH-, -Alkyl-, -Aryl, or -Aralkyl radical;

L represents a linear or branched hydrocarbon chain having from 1 to 6 chain members and optionally having one or more double or triple bonds, each of said chain members optionally being a heteroatom, each chain member being optionally substituted by one or more substituents selected from -Alkyl-, -Hal-, -NO₂-, -NRR', -CN-, -CF₃-, -OH-, -OAlkyl-, -Aryl, and -Aralkyl,

wherein R and R', which are identical or different, each independently of the other represents a hydrogen atom or an -Alkyl-, -Aryl, or -Aralkyl radical,

wherein the generation chains are represented by the formula:



wherein

A' and B' each independently of the other represents an -Alkyl-, -Alkenyl-, or -Alkynyl radical, each of which is optionally substituted by one or more substituents selected from -Alkyl-, -Hal-, -NO₂-, -NRR', -CN-, -CF₃-, -OH-, -OAlkyl-, -Aryl, and -Aralkyl;
and

R and R', which are identical or different, each independently of the other represents a hydrogen atom or an -Alkyl-, -Aryl, or -Aralkyl radical.

71. (Previously Presented) A dendritic polymer according to claim 70, wherein A' and B' each independently of the other represents a radical -Alkyl-.

72. (Currently Amended) A dendritic polymer according to claim 54, of generation n comprising:

- a central core S of valence m;
- generation chains branching around the core;
- an intermediate chain at the end of each generation chain that is present, or at the end of each bond around the core, where appropriate; and
- a terminal group at the end of each intermediate chain,

wherein said terminal group is represented by the formula:



wherein

-A1< represents the radical -CR< or -Heteroatom< ;

the radicals A2, which are identical or different, each independently of the other represents a single bond or a linear or branched hydrocarbon chain having from 1 to 6 chain members, each of said chain members optionally being selected from a heteroatom, each chain member being optionally substituted by one or more substituents selected from -Alkyl, -Hal, -NO₂, -NRR', -CN, -CF₃, -OH, -OAlkyl, -Aryl, and -Aralkyl;

R and R', which are identical or different, each independently of the other represents a hydrogen atom or an -Alkyl, -Aryl, or -Aralkyl radical;

X represents an -Alkyl or -Aryl radical, -H or /M⁺, where M is a cation,

m represents an integer greater than or equal to 1,

n represents an integer from 0 to 12; and

< represents two bonds situated on A1,

wherein the intermediate chains are represented by formula:

-J-K-L- (C2)

wherein

J represents an oxygen atom, a sulfur atom or a radical -NR-;

K represents an -Aryl-, -C(=O), -Heteroaryl-, or -Alkyl- radical, each of which is optionally substituted by a Halogen atom or a -NO₂, -NRR', -CN, -CF₃, -OH, -Alkyl, -Aryl, or -Aralkyl radical;

L represents a linear or branched hydrocarbon chain having from 1 to 6 chain members and optionally having one or more double or triple bonds, each of said chain members optionally being a heteroatom, each chain member being optionally substituted by one or more substituents selected from -Alkyl, -Hal, -NO₂, -NRR', -CN, -CF₃, -OH, -OAlkyl, -Aryl, and -Aralkyl,

wherein R and R', which are identical or different, each independently of the other represents a hydrogen atom or an -Alkyl, -Aryl, or -Aralkyl radical,

wherein the generation chains are represented by the formula:

-A''-N< (C1'')

wherein

A'' represents an -Alkyl, -Alkenyl, or -Alkynyl radical, each of which is optionally substituted by one or more substituents selected from -Alkyl, -Hal, -NO₂, -NRR', -CN, -CF₃, -OH, -OAlkyl, -Aryl, and -Aralkyl,

wherein R and R', which are identical or different, each independently of the other represents a hydrogen atom or an -Alkyl, -Aryl, or -Aralkyl radical.

73. (Previously Presented) A dendritic polymer according to claim 72, wherein A" represents an optionally substituted radical -Alkyl-.

74. (Cancelled)

75. (Cancelled)

76. (Currently Amended) A dendritic polymer according to claim [[108]] 114, wherein J represents an oxygen atom.

77. (Currently Amended) A dendritic polymer according to claim [[108]] 114, wherein K represents an optionally substituted -Phenyl- radical.

78. (Currently Amended) A dendritic polymer according to claim [[108]] 114, wherein L represents a radical $-(Alk)_a-$ or the radical $-C(D)=N-N(E)-(Alk)_a-$, where D and E, which are identical or different, each independently of the other represent a hydrogen atom, or an -Alkyl, [[--OAlkyl]] -OAlkyl, -Aryl, or -Aralkyl radical, each of which is optionally substituted by a halogen atom or by a -NO₂, -NRR', -CN, -CF₃, -OH, -Alkyl, -Aryl, or -Aralkyl radical.

79. (Cancelled)

80. (Cancelled)

81. (Currently Amended) A dendritic polymer according to claim ~~[[54]]~~ 85, wherein M^+ represents a cation of an element of group IA, IIA, IIB or IIIA of the periodic table or a cation of a nitrogen-containing base.

82. (Currently Amended) A dendritic polymer according to claim ~~[[54]]~~ 85, wherein M is selected from the atoms sodium and potassium.

83. (Cancelled)

84. (Cancelled)

85. (Previously Presented) A dendritic polymer ~~according to claim 54, of~~ generation n comprising:

- a central core § of valence m;

- optionally, generation chains branching around the core;

- an intermediate chain at the end of each generation chain that is present, or at the end of each bond around the core, where appropriate; and

- a terminal group at the end of each intermediate chain,

wherein said dendritic polymer which is represented by the following formula

(I-1i):

$$\S-\{\{A-B-C(D)=N-N(E)-(P(=G))<\}^n[J-K-(Alk)_a-N<[A2-P(=O)(OX)_2]_2\}_m \quad (I-1i)$$

in which:

§ represents a central core;

$\{[A-B-C(D)=N-N(E)-(P(=G))<]^n$ represents generation chains;

J-K-(Alk)_a- represents an intermediate chain';

A represents an oxygen, sulfur or phosphorus atom or a radical -NR-;

B represents an -Aryl-, -Heteroaryl-, or -Alkyl- radical, each of which is optionally substituted by a Halogen atom or a -NO₂, -NRR', -CN, -CF₃, -OH, -Alkyl, -Aryl, or -Aralkyl radical;

C represents a carbon atom,

D and E, which are identical or different, each independently of the other represents a hydrogen atom, or an -Alkyl, -OAlkyl, -Aryl, or -Aralkyl radical, each of which is optionally substituted by a Halogen atom or a -NO₂, -NRR', -CN, -CF₃, -OH, -Alkyl, -Aryl, or -Aralkyl radical;

G represents a sulfur, oxygen, nitrogen, selenium or tellurium atom or a radical =NR;

N represents a nitrogen atom;

P represents a phosphorus atom;

R and R', which are identical or different, each independently of the other represents a hydrogen atom or an -Alkyl, -Aryl, or -Aralkyl radical;

J represents an oxygen atom, a sulfur atom or a radical -NR-;

K represents an -Aryl-, -Heteroaryl-, or -Alkyl- radical, each of which is optionally substituted by a Halogen atom or a -NO₂, -NRR', -CN, -CF₃, -OH, -Alkyl, -Aryl, or -Aralkyl radical;

X represents an -alkyl or -Aryl radical, -H or /M⁺, where M is a cation,

the radicals A₂, which are identical or different, each independently of the other represents a single bond or a linear or branched hydrocarbon chain having

from 1 to 6 chain members, each of said chain members optionally being selected from a heteroatom, each chain member being optionally substituted by one or more substituents selected from -Alkyl, -Hal, -NO₂, -NRR', -CN, -CF₃, -OH, -OAlkyl, -Aryl, and -Aralkyl;

m represents an integer greater than or equal to 1;

n represents an integer from 0 to 12;

{ⁿ} denotes the branched structure of the generation n chains of said dendritic polymer, and

a represents 0 or 1.

86. (Currently Amended) A dendritic polymer ~~according to claim 54, of~~
generation n comprising:

- a central core § of valence m;

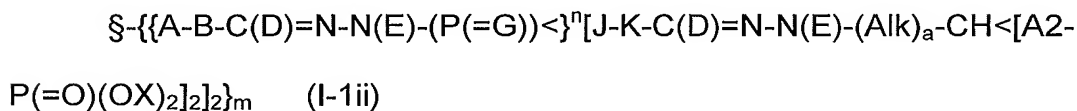
- optionally, generation chains branching around the core;

- an intermediate chain at the end of each generation chain that is present, or at the end of each bond around the core, where appropriate; and

- a terminal group at the end of each intermediate chain,

wherein said dendritic polymer ~~which~~ is represented by the following formula

(I-1ii):



in which:

§ represents a central core;

{A-B-C(D)=N-N(E)-(P(=G))<}ⁿ represents generation chains;

J-K-C(D)=N-N(E)-(Alk)_a- represents and intermediate chain;

A represents an oxygen, sulfur or phosphorus atom or a radical -NR-;

B represents an -Aryl-, -Heteroaryl-, or -Alkyl- radical, each of which is optionally substituted by a Halogen atom or a -NO₂, -NRR', -CN, -CF₃, -OH, -Alkyl, -Aryl, or -Aralkyl radical;

C represents a carbon atom,

D and E, which are identical or different, each independently of the other represents a hydrogen atom, or an -Alkyl, -OAlkyl, -Aryl, or -Aralkyl radical, each of which is optionally substituted by a Halogen atom or a -NO₂, -NRR', -CN, -CF₃, -OH, -Alkyl, -Aryl, or -Aralkyl radical;

G represents a sulfur, oxygen, nitrogen, selenium or tellurium atom or a radical =NR;

N represents a nitrogen atom;

P represents a phosphorus atom;

J represents an oxygen atom, a sulfur atom or a radical -NR-;

K represents an -Aryl-, -Heteroaryl-, or -Alkyl- radical, each of which is optionally substituted by a Halogen atom or by a -NO₂, -NRR', -CN, -CF₃, -OH, -Alkyl, -Aryl, or -Aralkyl radical;

X represents an Alkyl or-Aryl radical, -H or /M⁺, where M is a cation,

the radicals A₂, which are identical or different, each independently of the other represents a single bond or a linear or branched hydrocarbon chain having from 1 to 6 chain members, each of said chain members optionally being selected from a heteroatom, each chain member being optionally substituted by one or more

substituents selected from -Alkyl, -Hal, -NO₂, -NRR', -CN, -CF₃, -OH, -OAlkyl, -Aryl, and -Aralkyl;

m represents an integer greater than or equal to 1;

n represents an integer from 0 to 12;

{ⁿ} denotes the branched structure of the generation n chains of said dendritic polymer, and

a represents 0 or 1.

87. (Cancelled)

88. (Cancelled)

89. (Withdrawn) A method for preparing a dendritic polymer according to claim 54, comprising:

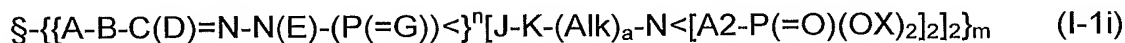
(i) reacting the corresponding dendritic polymer having a terminal function -CHO, -CH=NR, -NH₂ or -P(=G)Cl₂

with a corresponding compound having one or two functionalities -PO₃X₂;

(ii) optionally followed, when X represents H or M, by a step which comprises converting the dendritic polymer obtained in (i) having a -PO₃Me₂ termination into the corresponding dendritic polymer having an -A1<[A2-P(=O)(OH)₂]₂ termination,

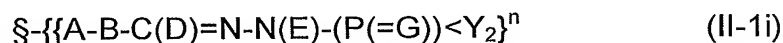
(iii) optionally followed, when X represents M, by a step which comprises converting the dendritic polymer obtained in (ii) having an -A1<[A2-P(=O)(OH)₂]₂ termination into the salt of the corresponding dendritic polymer having an -A1<[A2-P(=O)(OM)₂]₂ termination.

90. (Withdrawn) A method for preparing a dendritic polymer according to claim 89, wherein, when the dendritic polymer according to the invention is represented by the formula (I-1i)



in which \S , A, B, C, D, E, G, N, P, J, K, A₂, Alk, X, a, m, n, and < have the meanings defined above,

step (i) comprises reacting with the corresponding dendritic polymer of the same generation n of the formula



wherein Y represents -Cl;

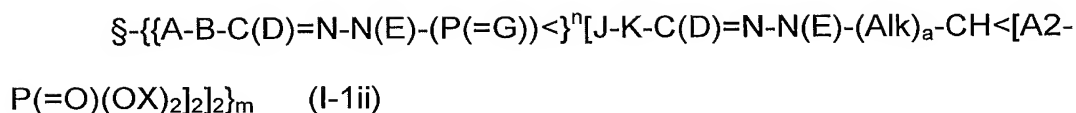
a compound of formula $H-J-K-(Alk)_a-N<[A_2-P(=O)(OX)_2]_2 \quad (III).$

91. (Withdrawn) A method according to claim 90, wherein the reaction is carried out in solution in a polar aprotic solvent, in the presence of an organic or inorganic base, at a temperature of from -80°C to 100°C.

92. (Cancelled)

93. (Cancelled)

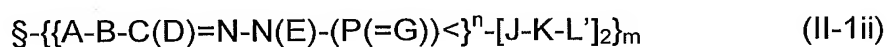
94. (Withdrawn) A method according to claim 89, wherein, when the dendritic polymer according to the invention is represented by formula (I-1ii)



in which:

\S , A, B, C, D, E, G, N, P, J, K, L, X, A2, m, n, and a have the meanings defined above,

step (i) comprises reacting with the corresponding dendritic polymer of formula



wherein L' represents a radical -CHO ;

a compound of formula $(Alk')_a-CH-[A2-P(=O)(OX)_2]$ (VI)

wherein Alk' corresponding to Alk defined above in formula (I-1ii) represents a radical Alkenyl, and X has the meaning defined above, in the presence of a compound of formula



95. (Withdrawn) A method according to claim 94, wherein the reaction is carried out in a polar aprotic solvent medium, by addition of the compounds (VI) and (VII) to the dendritic polymer (II-1ii) at a temperature of from -80°C to 100°C.

96. (Withdrawn) A method for preparing a dendritic polymer according to claim 89, wherein step (ii) is carried out:

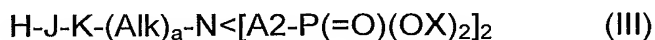
- by the action of a trimethylsilane halide,
- followed by the action of anhydrous MeOH, which is added to the reaction mixture.

97. (Withdrawn) A method according to claim 96, wherein the procedure is carried out in a polar aprotic organic solvent by addition of the trimethylsilane halide while keeping the reaction mixture at a temperature of from -80°C to 50°C.

98. (Withdrawn) A method for preparing a dendritic polymer according to claim 89, wherein in step (iii) a salt of a compound according to the invention is obtained starting from a compound according to the invention having a terminal group in which X represents a hydrogen atom.

99. (Withdrawn) A method for preparing a dendritic polymer according to claim 98, wherein the procedure is carried out in solution, in a suitable polar protic or aprotic solvent, in the presence of an organic or inorganic base, depending on the salt that is desired.

100. (Withdrawn) A compound of formula (III):



in which

X represents an -Alkyl, -C(=O), or -Aryl radical, H or M⁺, wherein M⁺ is a cation;

J represents an oxygen atom, a sulfur atom or a radical -NR-;

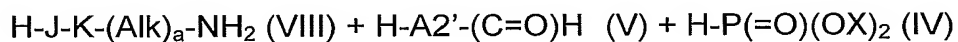
K represents an -Aryl-, -Heteroaryl-, or -Alkyl- radical, each of which is optionally substituted by a Halogen atom or a -NO₂, -NRR', -CN, -CF₃, -OH, -Alkyl, -Aryl, or -Aralkyl radical;

the radicals A₂, which are identical or different, each independently of the other represents a single bond or a linear or branched hydrocarbon chain having from 1 to 6 chain members, each of said chain members optionally being selected from a heteroatom, preferably nitrogen, each chain member being optionally substituted by one or more substituents selected from -Alkyl, -Hal, -NO₂, -NRR', -CN, -CF₃, -OH, -OAlkyl, -Aryl, and -Aralkyl;

-Alk- represents an alkyl radical; and

a represents 0 or 1.

101. (Withdrawn) A method for preparing a compound of formula (III) according to claim 100, comprising the following step:



wherein, in formula (V), -A₂'- is a radical corresponding to A₂.

102. (Withdrawn) A method according to claim 101, wherein the procedure is carried out by addition of the compounds (VIII) and (IV), and of the compound (V), at a temperature of from -5 to 25°C.

103. (Withdrawn) A method for treating or being in contact with surfaces comprising using a dendritic polymer according to claim 54.

104. (Withdrawn) A method according to claim 103, wherein said surfaces are metal, silica-based or oxide-based.

105. (Withdrawn) A method according to claim 103, wherein said dendritic polymer is used as an additive in a composition that is to be in contact with or to treat said surface.

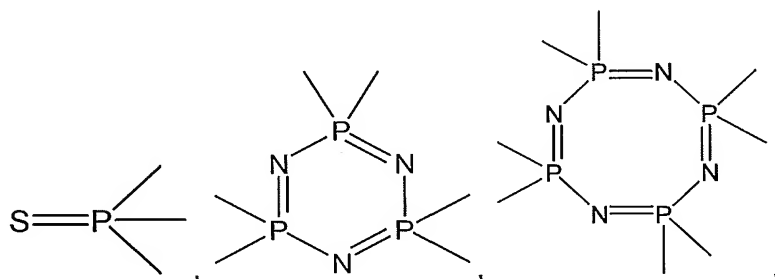
106. (Withdrawn) A method according to claim 103, wherein said dendritic polymer is used as an anti-corrosive agent, a lubricating agent, a scale preventer or as a flame retardant.

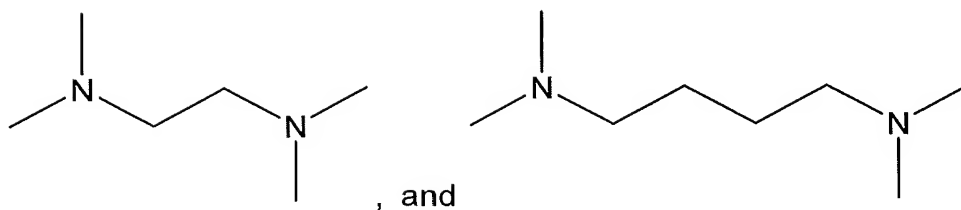
107. (Cancelled)

108. (Cancelled)

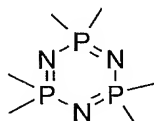
109. (Currently Amended) A dendritic polymer according to claim ~~408~~ 114, wherein A2 represents -Me-.

110. (Currently Amended) A dendritic polymer according to claim ~~408~~ 114, wherein the central core § is selected from the group consisting of:





111. (Currently Amended) A dendritic polymer according to claim 408 114, wherein the central core § has the formula:



112. (Currently Amended) A dendritic polymer according to claim 408 114, wherein m represents an integer from 1 to 8.

113. (Currently Amended) A dendritic polymer according to claim 408 114, wherein m is selected from 3, 4 and 6.

114. (Currently Amended) A dendritic polymer ~~according to claim 408, of~~ generation n comprising:

- a central core § of valence m;
 - optionally, generation chains branching around the core;
 - an intermediate chain at the end of each generation chain that is present, or at the end of each bond around the core, where appropriate; and
 - a terminal group at the end of each intermediate chain,
- wherein said terminal group is represented by the formula:

-(A1)<[A2-P(=O)(OX)₂]₂ (T)

wherein

-A1< represents the radical -CR< or -Heteroatom< ;

the radicals A2, which are identical or different, each independently of the other represents a single bond or a linear or branched hydrocarbon chain having from 1 to 6 chain members, each of said chain members optionally being selected from a heteroatom, each chain member being optionally substituted by one or more substituents selected from -Alkyl, -Hal, -NO₂, -NRR', -CN, -CF₃, -OH, -OAlkyl, -Aryl, and -Aralkyl;

R and R', which are identical or different, each independently of the other represents a hydrogen atom or an -Alkyl, -Aryl, or -Aralkyl radical;

X represents an -Alkyl or -Aryl radical, -H or /M⁺, where M is a cation,

m represents an integer greater than or equal to 1;

wherein n [[is]] represents an integer from 0 to 3, and

< represents two bonds situated on A1,

wherein the intermediate chains are represented by formula:

-J-K-L- (C2)

wherein

J represents an oxygen atom, a sulfur atom or a radical -NR-;

K represents an -Aryl-, -C(=O)-, -Heteroaryl-, or -Alkyl- radical, each of which is optionally substituted by a Halogen atom or a -NO₂, -NRR', -CN, -CF₃, -OH, -Alkyl, -Aryl, or -Aralkyl radical;

L represents a linear or branched hydrocarbon chain having from 1 to 6 chain members and optionally having one or more double or triple bonds, each of said

chain members optionally being a heteroatom, each chain member being optionally substituted by one or more substituents selected from -Alkyl, -Hal, -NO₂, -NRR', -CN, -CF₃, -OH, -OAlkyl, -Aryl, and -Aralkyl,

wherein R and R', which are identical or different, each independently of the other represents a hydrogen atom or an -Alkyl, -Aryl, or -Aralkyl radical.

115. (Currently Amended) A dendritic polymer according to claim 408 114, wherein the generation chains are selected from linear and branched hydrocarbon chains having from 1 to 12 chain members and optionally having one or more double or triple bonds, each of said chain members optionally being selected from a heteroatom, an Aryl radical, a Heteroaryl radical, >C=O, and >C=NR, each chain member being optionally substituted by one or more substituents selected from the group consisting of -Alkyl, -Hal, -NO₂, -NRR', -CN, -CF₃, -OH, -OAlkyl, -Aryl, and -Aralkyl,

wherein

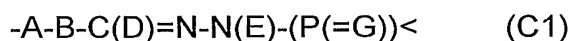
R and R', which are identical or different, each independently of the other represents a hydrogen atom or an -Alkyl, -Aryl, or -Aralkyl radical.

116. (Currently Amended) A dendritic polymer according to claim 408 114, wherein M⁺ represents a cation of an element of group IA, IIA, IIB or IIIA of the periodic table or a cation of a nitrogen-containing base.

117. (Currently Amended) A dendritic polymer according to claim 408 114, wherein M is selected from the atoms sodium and potassium.

118. (Currently Amended) A dendritic polymer according to claim 408 114, wherein the generation chains are identical.

119. (Currently Amended) A dendritic polymer according to claim 408 114, wherein the generation chains and intermediate chains are respectively represented by the formula (C1) and (C2):



wherein:

A represents an oxygen, sulfur or phosphorus atom or a radical -NR-;

B represents an -Aryl-, -Heteroaryl-, or -Alkyl- radical, each of which is optionally substituted by a Halogen atom or by a -NO₂, -NRR', -CN, -CF₃, -OH, -Alkyl, -Aryl, or -Aralkyl radical;

C represents a carbon atom,

D and E, which are identical or different, each independently of the other represents a hydrogen atom, or an -Alkyl, -OAlkyl, -Aryl, or -Aralkyl radical, each of which is optionally substituted by a Halogen atom or a -NO₂, -NRR', -CN, -CF₃, -OH, -Alkyl, -Aryl, or -Aralkyl radical;

G represents a sulfur, oxygen, nitrogen, selenium or tellurium atom or a radical =NR;

N represents a nitrogen atom;

P represents a phosphorus atom;

J represents an oxygen atom, a sulfur atom or a radical -NR-;

K represents a radical -Aryl-, -Heteroaryl-, or -Alkyl-, each of which is optionally substituted by a Halogen atom or by a -NO₂, -NRR', -CN, -CF₃, -OH, -Alkyl, -Aryl, or -Aralkyl radical;

L represents a linear or branched hydrocarbon chain having from 1 to 6 chain members and optionally having one or more double or triple bonds, each of said chain members optionally being a heteroatom, each chain member being optionally substituted by one or more substituents selected from -Alkyl, -Hal, -NO₂, -NRR', -CN, -CF₃, -OH, -OAlkyl, -Aryl, and -Aralkyl,

wherein R and R', which are identical or different, each independently of the other represents a hydrogen atom or an -Alkyl, -Aryl, or -Aralkyl radical.

120. (Currently Amended) A dendritic polymer according to claim ~~108~~ 114, which is represented by the following formula (I-1i):



in which:

§ represents a central core;

{A-B-C(D)=N-N(E)-(P(=G))<}ⁿ represents generation chains;

J-K-(Alk)_a- represents an intermediate chain';

A represents an oxygen, sulfur or phosphorus atom or a radical -NR-;

B represents an -Aryl-, -Heteroaryl-, or -Alkyl- radical, each of which is optionally substituted by a Halogen atom or a -NO₂, -NRR', -CN, -CF₃, -OH, -Alkyl, -Aryl, or -Aralkyl radical;

C represents a carbon atom,

D and E, which are identical or different, each independently of the other represents a hydrogen atom, or an -Alkyl, -OAlkyl, -Aryl, or -Aralkyl radical, each of which is optionally substituted by a Halogen atom or a -NO₂, -NRR', -CN, -CF₃, -OH, -Alkyl, -Aryl, or -Aralkyl radical;

G represents a sulfur, oxygen, nitrogen, selenium or tellurium atom or a radical =NR;

N represents a nitrogen atom;

P represents a phosphorus atom;

R and R', which are identical or different, each independently of the other represents a hydrogen atom or an -Alkyl, -Aryl, or -Aralkyl radical;

J represents an oxygen atom, a sulfur atom or a radical -NR-;

K represents an -Aryl-, -Heteroaryl-, or -Alkyl- radical, each of which is optionally substituted by a Halogen atom or a -NO₂, -NRR', -CN, -CF₃, -OH, -Alkyl, -Aryl, or -Aralkyl radical;

X represents an -alkyl or -Aryl radical, -H or /M⁺, where M is a cation,

the radicals A₂, which are identical or different, each independently of the other represents a single bond or a linear or branched hydrocarbon chain having from 1 to 6 chain members, each of said chain members optionally being selected from a heteroatom, each chain member being optionally substituted by one or more substituents selected from -Alkyl, -Hal, -NO₂, -NRR', -CN, -CF₃, -OH, -OAlkyl, -Aryl, and -Aralkyl;

m represents an integer greater than or equal to 1;

n represents an integer from 0 to 12;

$\{\}^n$ denotes the branched structure of the generation n chains of said dendritic polymer, and

a represents 0 or 1.

121. (Withdrawn) A method for preparing a dendritic polymer according to claim 108, comprising:

(i) reacting the corresponding dendritic polymer having a terminal function -CHO, -CH=NR, -NH₂ or -P(=G)Cl₂

with a corresponding compound having one or two functionalities -PO₃X₂;

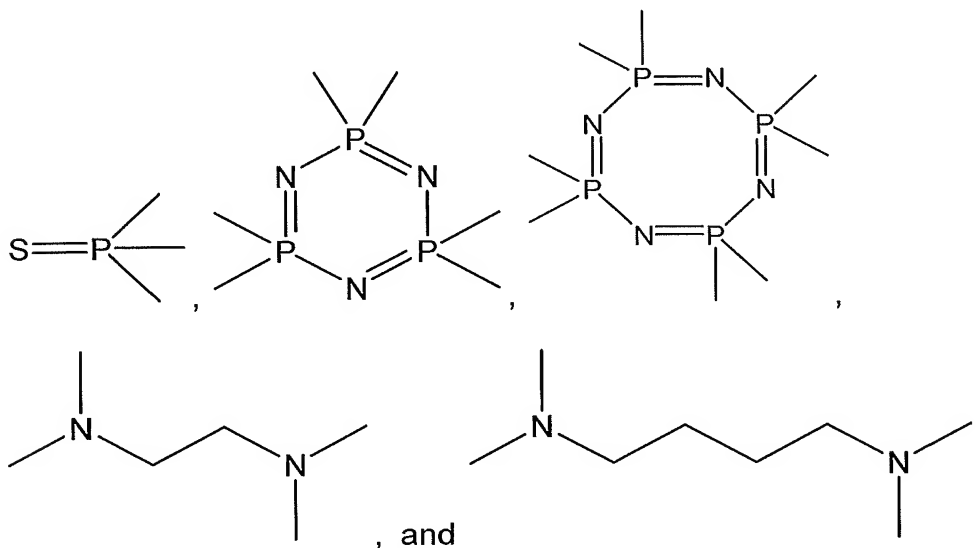
(ii) optionally followed, when X represents H or M, by a step which comprises converting the dendritic polymer obtained in (i) having a -PO₃Me₂ termination into the corresponding dendritic polymer having an -A1<[A2-P(=O)(OH)₂]₂ termination,

(iii) optionally followed, when X represents M, by a step which comprises converting the dendritic polymer obtained in (ii) having an -A1<[A2-P(=O)(OH)₂]₂ termination into the salt of the corresponding dendritic polymer having an -A1<[A2-P(=O)(OM)₂]₂ termination.

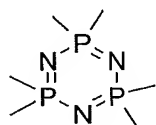
122. (Withdrawn) A method for treating or being in contact with surfaces comprising using a dendritic polymer according to claim 108.

123. (New) A dendritic polymer according to claim 86, wherein A2 represents -Me-.

124. (New) A dendritic polymer according to claim 86, wherein the central core § is selected from the group consisting of:



125. (New) A dendritic polymer according to claim 86, wherein the central core § has the formula:



126. (New) A dendritic polymer according to claim 86, wherein m represents an integer from 1 to 8.

127. (New) A dendritic polymer according to claim 86, wherein m is selected from 3, 4 and 6.

128. (New) A dendritic polymer according to claim 86, wherein n is from 0 to 3.

129. (New) A dendritic polymer according to claim 86, wherein in formula (I-1ii), A represents an oxygen atom.

130. (New) A dendritic polymer according to claim 86, wherein B represents an optionally substituted phenyl radical.

131. (New) A dendritic polymer according to claim 86, wherein D represents a hydrogen atom.

132. (New) A dendritic polymer according to claim 86, wherein E represents an -Alkyl radical.

133. (New) A dendritic polymer according to claim 86, wherein G represents a sulfur atom.

134. (New) A dendritic polymer according to claim 86, wherein M^{+} represents a cation of an element of group IA, IIA, IIB or IIIA of the periodic table or a cation of a nitrogen-containing base.

135. (New) A dendritic polymer according to claim 86, wherein M is a sodium or a potassium atom.